

Notice of Allowability

Application No.

10/553,885

Examiner

LUONG T. NGUYEN

Applicant(s)

ALHADEF, LAURENT

Art Unit

2622

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE filed on 03/29/2011 and Interview on 06/06/2011.
2. ☒ The allowed claim(s) is/are 1-3,5-10,12 (renumbered as 1-10, respectively).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
- ☒ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>06/06/2011</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

/LUONG T NGUYEN/
Primary Examiner, Art Unit 2622

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/29/2011 has been entered.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Laurent Alhadeff on 06/06/2011 and 05/24/2011.

3. The claims have been amended as follows:

Claim 1 (line 3), "positional coordinates" has been changed to --spatial coordinates--.

Claim 1 (line 8), "and_instantaneous inclination" has been changed to --and instantaneous inclination--.

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Claim 1 (line 9), “said defined reference point” has been changed to --said defined reference point, wherein the first subsystem is removable from the viewing device--.

Claim 1 (line 11), “the transmission” has been changed to --the transmitting--.

Claim 1 (line 13), “software program, wherein the first subsystem is removable from the viewing device” has been changed to --software program--.

Claim 1 (line 18), “procedure.” has been changed to --procedure, wherein error corrections to the data signals delivered by said inertial sensing unit is done by applying the image analysis procedure, included among the stored software program contained in a data processing unit--.

Claim 2 (line 3), “said orthogonal” has been changed to --an orthogonal--.

Claim 2 (line 5), “around the axis” has been changed to --around an axis--.

Claim 4 has been canceled.

Claim 5 (line 3), “by capturing” has been changed to --by acquiring--.

Claim 5 (line 4), “inclination of said” has been changed to --inclination and the focal length of said--.

Claim 6 (line 2), “the data signals and the focal length” has been changed to --the data signals--.

Claim 7 (lines 2-3), “connecting devices for transmitting the signals from the first to the second subsystem are included for transmitting the signals from the first subsystem to the second subsystem” has been changed to --connecting devices are included for transmitting the data signals from the first subsystem to the second subsystem--.

Claim 10 (line 3), “acquired data” has been changed to --acquired data signals--.

Claim 11 has been canceled.

Claim 12 (line 2), "acquired data" has been changed to --acquired data signals--.

Allowable Subject Matter

4. Claims 1-3, 5-10, 12 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art of the record fails to show or fairly suggest a method of embedding images from other sources within images captured by a viewing device in motion, by transmitting and analyzing the spatial coordinates of the viewing device during acquisition of a sequence of video images (I) while the viewing device is moving through space along a trajectory (t) determined with respect to a defined reference point, the method comprising:

a preliminary step consisting of attaching said viewing device to a first subsystem which contains an inertial sensing unit delivering data signals representing spatial coordinates and instantaneous inclination and the focal length of said viewing device with respect to said defined reference point, wherein the first subsystem is removable from the viewing device;

a first step of acquiring, in real time, of said data signals during the movement of said viewing device along said trajectory (t) and the transmitting of said data signals to a second subsystem which includes equipment for processing said data signals using a stored software program; and

a second step of processing said data signals, either in real time or deferred for later analysis, so as to determine said spatial coordinates of position the viewing device, and improving the quality of the acquired data by applying an image analysis procedure, wherein

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error corrections to the data signals delivered by said inertial sensing unit is done by applying the image analysis procedure, included among the stored software program contained in a data processing unit.

Claims 2-3, 5-10, 12 are allowed as being dependent from claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to LUONG T. NGUYEN whose telephone number is (571)272-7315. The examiner can normally be reached on 7:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, DAVID L. OMETZ can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/LUONG T NGUYEN/
Primary Examiner, Art Unit 2622
06/06/11